

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,466	01/07/2005	Hirokatsu Hayashi	2005_0004A	5501
513 7590 10/03/2007 WENDEROTH, LIND & PONACK, L.L.P.			EXAMINER	
2033 K STREE	•		MARTINEZ, I	BRITTANY M
SUITE 800 WASHINGTO				
	,		1709	
			MAIL DATE	DELIVERY MODE
			10/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

. 14				
		Application No.	Applicant(s)	
Office Action Summary		10/520,466	HAYASHI ET AL.	
		Examiner	Art Unit	
		Brittany M. Martinez	1709	
Period	The MAILING DATE of this communication ap for Reply	pears on the cover sheet with	h the correspondence address	
WH - Ex aft - If t - Fa An	HORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING Detensions of time may be available under the provisions of 37 CFR 1. er SIX (6) MONTHS from the mailing date of this communication. NO period for reply is specified above, the maximum statutory period illure to reply within the set or extended period for reply will, by statuty reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a rep will apply and will expire SIX (6) MONT e, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on <u>07 J</u>	lanuary 2005.		
2a)[- / _	s action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to				
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Dispos	ition of Claims			
4)⊠	Claim(s) <u>1-12</u> is/are pending in the application	n. '	•	
	4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)[Claim(s) is/are allowed.			
6)[Claim(s) is/are rejected.			
7)[•	•		
8)⊠	Claim(s) <u>1-12</u> are subject to restriction and/or	election requirement.		
Applica	tion Papers			
9)[The specification is objected to by the Examine	er.		
10)[The drawing(s) filed on is/are: a)☐ acc	cepted or b)□ objected to b	y the Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	,	• •	
11)L	The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.	
Priority	under 35 U.S.C. § 119			
12)[Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
	ı) ☐ All b) ☐ Some * c) ☐ None of:			
•	1. Certified copies of the priority documen	ts have been received.		
	2. Certified copies of the priority documen	ts have been received in Ap	plication No	
	3. Copies of the certified copies of the price	ority documents have been r	eceived in this National Stage	
	application from the International Burea	au (PCT Rule 17.2(a)).	•	
*	See the attached detailed Office action for a list	t of the certified copies not re	eceived.	
		•		
Attachme	ent(s)			
	tice of References Cited (PTO-892)		ummary (PTO-413)	
	tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO/SB/08)	Paper No(s). 5) Notice of Inf	/Mail Date formal Patent Application	
	per No(s)/Mail Date	6) Other:	_·	

Art Unit: 1709

DETAILED ACTION

Citation to the Specification will be in the following format (S. #, LL) where # denotes the page number and LL is the line number.

Election/Restrictions

·1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-2, drawn to an easily dispersible silica cake.

Group II, claim(s) 3-4, drawn to a process for producing an easily dispersible silica cake.

Group III, claim(s) 5-6, drawn to a dispersion of precipitated silica.

Group IV, claim(s) 7-8, drawn to a process for preparing a dispersion of precipitated silica.

Group V, claim(s) 9-10, drawn to a coating liquid for an ink-jet recording sheet.

Group VI, claim(s) 11, drawn to a process for making a coating liquid for an inkjet recording sheet characterized by dispersing a precipitated silica cake and a binder in a polar solvent.

Group VII, claim(s) 12, drawn to drawn to a process for making a coating liquid for an ink-jet recording sheet characterized by dispersing a precipitated silica cake, a cationic polymer, and a binder in a polar solvent.

Art Unit: 1709

The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common technical feature in the groups is a dispersion of precipitated silica. This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. Applicant discloses in the instant specification: "... precipitated silica which is prepared by a process referred to as "precipitation process" comprising reacting an aqueous solution of alkali silicate with acid to precipitate silica particles is gathering attention as a material for said dispersions, because it excels in productivity and liquid absorbing property" (S. 2, 15-20). Additionally, U.S. 6,977,065 teaches dispersible precipitated silica.

A review of the cited references makes clear that the claimed invention is not novel over the prior art. Furthermore, these references appear to demonstrate that the claimed technical feature does not define a contribution which each of the inventions, considered as a whole, make over the prior art.

Applicant is advised that in order for the reply to this requirement to be complete, an election of the invention to be examined must be included even though the requirement may be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

Art Unit: 1709

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

- 1. No claim is allowed.
- 2. All pending claims are subject to restriction requirement.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brittany M. Martinez whose telephone number is (571) 270-3586. The examiner can normally be reached Monday-Thursday 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571) 272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 1709

BMM

VICKIEY KIM EXAMINER
SUPERVISORY PATENT EXAMINER